

NORTHROP'S STAMPED STEEL CEILINGS



HENRY S. NORTHROP
MANUFACTURER 40 CHERRY STREET
NEW YORK

THE NORTH BRITISH
PRINTING OFFICE
LONDON



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SPECIAL DISCOUNT.
40%

NO. 40 CHERRY STREET,

New York, May 1st, 1897.

PRICE LIST OF STEEL CEILINGS

MANUFACTURED BY H. S. NORTHROP.

All Stamped Panels, Borders, Mouldings, etc., of No. 29 mild Steel. The Corrugated, Twilled and Crimped Sheets of No. 28 Box annealed iron. ALL PAINTED ONE COAT WHITE, EACH SIDE.

Orders of 1000 ft. or more of Ceiling, boxed and delivered board cars or boat, free.
 " " 500 to 1000 ft., Cartage is charged, Boxing free.
 " " less than 500 ft., Boxing and Cartage both charged.

Corrugated or Crimped Sheets as on page 2

Twilled—Sheets as on page 2
 Diaper Patterns Nos 1 2 3 4 5 6 as on pages 2 and 3
 Panel 7 8 10 20 21 23 24 27 31 32
 1 2 3 4 5 6 9 11 12 13 15 28 30
 14 14½ 15 15½ 17 25 25½ 16 26½ 29
 " 19 in halves
 " 16 in parts 5 c. or made up complete
 22 10 c

Borders, all patterns, see page 16
 Coves 17

6¼ c per sq foot.
 6½ c
 7 c
 7¼ c
 7½ c
 7¾ c
 8 c
 15 c
 15 c
 7¼ c
 7½ c

MOULDINGS PLAIN per lineal foot.

No 1	3 x 1¼	No 4	2¼ x 1½	No 9	1 x ½	1½ c
2	2 x 1¼	5	3 x 1¾	18	(foot mould)	2¾ c
3	Lt 3 x ¾	7	2½ x 1¾	22	Cornice mould	2½ c
3	Hvy 3 x 1¼	8	1¾ x 1	24		2¼ c

MOULDINGS EMBOSSED per lineal foot.

No 1	3 x 1¾	No 5	1¾ x 1	No 17	(foot mould)	3 c
2	2 x 1¼	9	1 x ½	18		3¼ c
3	Lt 3 x ¾	10	11 x 2½	19	Cornice mould	2¼ c
3	Hvy 3 x 1¼	11	8½ x 1½	20		2 c
4	2¼ x 1½	12	5 x 1¾	21		2½ c
5	3 x 1¾	14	6 x 1¾	23		2½ c
6	4 x 2¼	15	8 x 2½	25		3¼ c
7	2½ x 1¾	16	3 x ¾	26		4 c

CLASSIC CORNICES per lineal foot.

Page 19—No. 1 20 c. No. 2 15 c. No. 3 10 c. No. 4 5 c.
 WIRE NAILS ¾ and 1 in. No 16 for panels 10 c 1½ in. No 16 for mouldings 10 c
 The Leaf Cove—(No. 2), will be formed with moulding on edges. So that no extra mouldings are necessary @ 5 ct per sq. ft. See Fig. 2, page 20.
 Corrugated Sheets No. 25 gauge painted red. See page 42
 Beaded
 Weather board
 Sheet Steel pressed Brick

\$5.30 per sq
 5.50
 5.60
 6.00

Terms, Net Cash, 30 days. Parties whose standing is not known, may remit with order, less 2 per cent., or have goods shipped C. O. D., less 1 per cent.



STAMPED STEEL CEILINGS



THESE CEILINGS, usually made of No. 28 or 29 mild steel, have come into extensive use, as they meet a demand for a durable, decorative and incombustible interior finish. They are used in buildings of every class, and especially in business property, churches, schools, asylums, residences, etc. They are light in weight, practically air-tight, unquestionably durable, and have in numerous cases prevented the spread of fire.

NORTHROP'S steel ceilings have all the improvements of construction and refinements of design which a long experience has proven desirable. They include a larger assortment of choice patterns, with appropriate borders and mouldings, than any other make.

THE JOINTS are the most perfect and simple, being made either on a neat, ornamental beading, in which the nails do not show, and which is a part of the design, or on a small bead moulding, with countersunk places at regular intervals for the nails.

CONTINUOUS DESIGNS—Several of the patterns are made in sheets eight feet long.

THE PAINTING of the ceilings, in the shop before shipping, is done with pure white zinc, linseed oil and turpentine, on each side, so that one coat less of finishing paint is required than is necessary for ceilings painted with mineral or other cheap paints. Long experience has proven this paint to be amply durable.

IN NEW BUILDINGS with wood beams, furring strips, usually 1" x 2", are first nailed up level, crossways of the beams, spaced to suit the pattern chosen. Then pieces are put in crossways, flush with the first, as required, and the ceiling is then put up. Some patterns do not require cross furring.

IN OLD BUILDINGS which are plastered, the furring strips are put up in the same way, except that longer nails are needed. It is advisable to leave the old plaster in place, as it cannot do any damage to the metal ceiling, and it deadens noises from above.

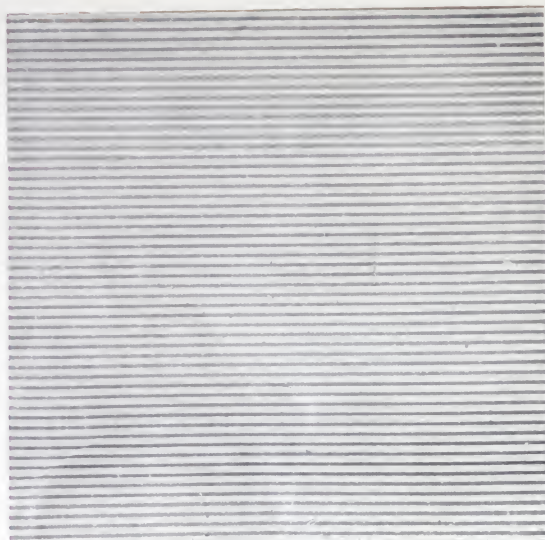
IN IRON BUILDINGS furrings of wood may be put up, as has been done in many cases; or furrings consisting of a stiff sheet-iron rib may be used, to which the panels are attached with screws, as has been done in the Siegel Cooper building in New York, and the Devonshire building, Boston.

IRON DOORS—Attention is called to the paneled sheet steel doors, door and window trim, shown on page 21.

IN THIS CATALOGUE we present first, photo engravings of the various panels, plates, borders, coves, etc.; then sketches showing the ordinary arrangement, and then a few photo engravings of complete work. Prospective purchasers will please send me plans, diagrams and measures of the rooms to be ceiled, mentioning whether the building is new or already has a plaster or wood ceiling, also what patterns or arrangements are preferred; whether a large or small cornice is desired, or none at all; whether windows or stair openings interfere with the cornice or ceiling. An intelligent estimate or design can then be submitted. For churches, halls, or any large ceiling, I am always ready to submit special designs or arrangements drawn to scale.

When necessary measures are received, a plan is drawn to scale showing the spacing of all the panels, borders and mouldings, and a list of the various parts is annexed and sent with the invoice.

H. S. NORTHROP, 40 Cherry Street, New York.



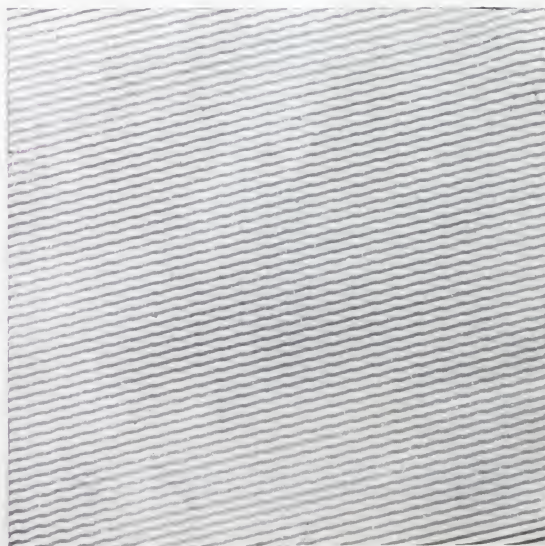
Fine Corrugated or Crimped—Sheets, 24 to 28 in. wide, 8 ft or less in length. Usually used with mouldings over the seams, as on page 40. Also for the margins of paneled ceilings.



No. 1 Diaper Pattern—Sheets lay 23½ in. wide, and 94 in. long, exclusive of laps.



No. 2 Diaper Pattern.
Sheets, 24 x 96 in.



Twilled—Sheets, 24 to 28 in. wide, and 8 ft or less in length. Usually used with mouldings over the seams.



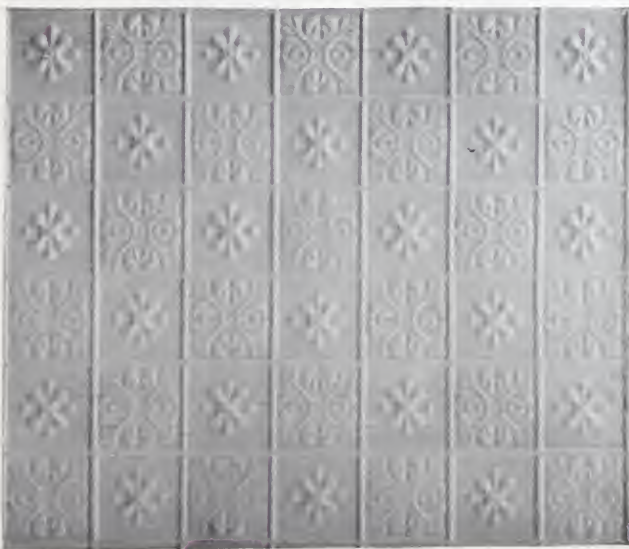
No. 3 Diaper Pattern—Sheets lay 24 in. wide by 96 in. long.



No. 4 Diaper Pattern.
Made in Sheets 24 x 96 inches



Fleur-de-Lis Pattern—Usually in pieces, 2 x 2 ft., but may be in sheets 2 x 5 ft. Above cut shows one piece 2 x 2 ft., with pieces adjoining to complete the figure. Scale $\frac{1}{8}$ in. = 1 foot. Very desirable for churches.



No. 5 Diaper Pattern.
Made in Sheets 24 x 96 inches

No. 6 Diaper Pattern.
Made in Sheets 24 x 96 inches



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Panel No. 2—Cut 20 x 20 in. Lays $19\frac{1}{2}$ x $19\frac{1}{2}$ in. (See page 40.) Made in single panels, and in sheets of five panels 20 x 98 in.



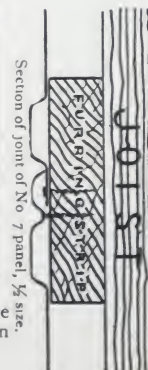
Panel No. 1—Cut 14 x 14 in. Lays $13\frac{1}{2}$ x $13\frac{1}{2}$ in. Very suitable for ceilings of small rooms, or for side walls. The surface for it should be sheeted with thin boards.



Panel No. 3—Cut 20 x 28 in. Lays $19\frac{1}{2}$ x $27\frac{1}{2}$ in. May be put up on 2 in. furring strips, or on thin sheeting. Made in single panels, and in sheets 20 x 83 in. of three panels.
[Joint patented Aug. 12, 1890.]



Panel No. 7—Cut $24\frac{1}{4}$ x $24\frac{1}{4}$ in. Lays $23\frac{3}{4}$ x $23\frac{3}{4}$ in. May be put up on 2 in. furring or thin sheeting. (See page 26.) Made in single panels, and in sheets of four panels.
[Joint patented Aug. 12, 1890.]



Panel No. 8—24 x 32 in. Made in single panels, or in sheets of three panels each, 24 x 96 in.



Section of joint, E size.

Panel No. 4—Lays 27 x 27 in. Panel No. 5 lays 18 x 27 in. Panel No. 6 lays 18 x 18 in. Each size made in single panels, and also in sheets of three panels each. All of similar design and sunken $\frac{1}{2}$ in. Require 2 in furring strips. All of my panels are secured to the furring with $\frac{7}{8}$ in. thin wire nails, driven through between the bead work which ornaments and conceals the seam and nail heads. (See pages 26 and 34.) Scale, $\frac{1}{8}$ in. = 1 in.

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Panel No. 9—Laying 27 x 27 in, with one-half panels and pieces adjoining to show seams and connection of pattern (See pages 25 and 39) [Pat. Aug. 12, 1890]



Panels No. 10 three in one sheet covering 2' x 7' C-C.

The Nos. 2, 3, 4, 5, 6, 7, 8 and 27 Panels are also made in sheets of from three to five panels each, thus saving much labor in putting up.

(6)

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Panel No. 10—Made in two sizes, viz.:

Single Panels, 24 x 28 inches, or sheets of three each

Single Panels, 24 x 32 inches, or sheets of three each
(See page 22)



Panel No. 27—Laying 24 x 32 inches, made in Single Panels and in sheets of three, 24 x 96 inches. (See page 25)



Panel No. 11—30 x 30 inches, $\frac{3}{4}$ in. deep
 Panel No. 12—20 x 30 inches, $\frac{3}{4}$ in. deep
 Panel No. 13—20 x 20 inches, $\frac{3}{4}$ in. deep
 (See pages 22 and 33.)

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Panel No. 14 —24 x 48 inches, 1 inch deep
 Panel No. 15 —24 x 24 inches, 1 inch deep

(See pages 27 and 32.)

Panel No. 14 $\frac{1}{2}$ —12 x 24 inches, $\frac{7}{8}$ inch deep
 Panel No. 15 $\frac{1}{2}$ —12 x 12 inches, $\frac{7}{8}$ inch deep

[Joint patented Aug. 12, 1895.]

H. S. NORTHROP, Manufacturer, 40 Cherry Street, New York.



Panel No. 16—4 ft x 4 ft 1 in. deep. Used as a centerpiece panel for the No. 14 and 15 panels—and also, without the mouldings on the edge—as a centerpiece for other panels.

(See pages 27, 32 and 38.)

[Joint patented Aug. 12, 1896.]

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Panel No. 17—26 x 26 in 1 in deep



Panel No. 23—Lays 24 x 27½ in.



Panels No. 18—2 x 4 ft (See page 31)

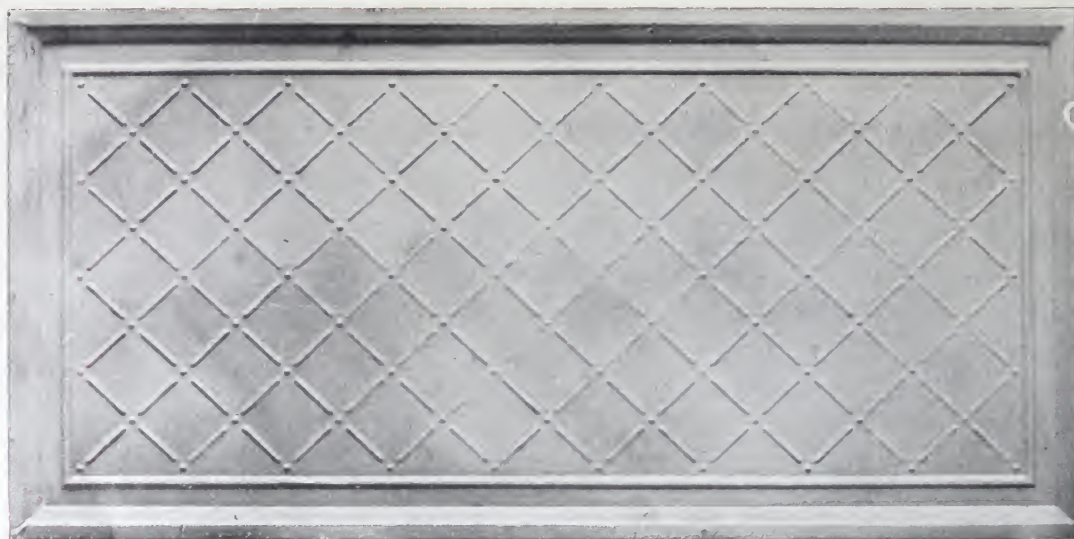
No 18 and 23 panels form continuous patterns, repeating, one the Elizabethan and the other the Moorish design shown. The design of No 18 is 4 ft x 4 ft. when complete.

H. S. NORTHROP, Manufacturer, 40 Cherry Street, New York.



Panel No. 19—4 ft 1 in x 4 ft 2½ in Made in two pieces joined through the centre. This pattern is usually used with a moulding between each panel. It is the largest and most decorative panel made in sheet metal, and well adapted to high ceilings, either flat or curved. (See page 35.)

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Section of Joint 1/2 size

Panel No. 20—2 x 4 ft. Can be put up across the joists, or upon furring, spaced 2 ft from centres. No "cross" furring required



Panel No. 24—2 x 3 ft. Makes a continuous design



Panel No. 21—2 x 2 ft. Similar in design to No. 20

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Panel No. 22—4 ft. x 4 ft. 2 in. deep. (See pages 29 and 30.)

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Panel No. 25 —2 ft x 4 ft 1 $\frac{1}{8}$ in deep

Panel No. 25 $\frac{1}{2}$ —1 ft x 2 ft 1 in deep
(See pages 23, 36 and 37)

Panel No. 26 —2 ft x 2 ft 1 $\frac{1}{8}$ in deep

Panel No. 26 $\frac{1}{2}$ —1 ft x 1 ft 1 in deep
[Patented Aug 12, 1890]

The No. 25 panel is also made "plain centre," that is, without the two cross bars, which divides the central part into three panels

H. S. NORTHROP, Manufacturer, 40 Cherry Street, New York.



Panels 25 $\frac{1}{2}$, 26 and 26 $\frac{1}{2}$ —With 10 inch Zinc Rosette, all arranged as a "Centerpiece."

BORDER... PATTERNS

Scale $\frac{1}{8}$ in. = 1 in.

No. 1 Border—24 in. from centre to centre of figure, and 24 in. wide from out to out. It is also pressed with one or both outer ornaments omitted. Made in pieces 8 ft. long, and 18, 21 or 24 in. wide.



No. 4 Border—In pieces 8 ft. long and 18 and 20 in. wide. A beautiful frieze or border pattern.



No. 2 Border—Made in pieces 5 ft. long and 10, 12, 14 or 16 in. wide.



No. 5 Border—14 in. wide and 100 in. long.



No. 3 Border—Made in pieces 5 ft. long and 11, 13, 15 and 17 in. wide.



No. 6 Border—Made 7 in., 9 in., 13 in. and 18 in. wide, and 8 ft. long.

“COVE” CORNICE PATTERNS



No. 3 Cove Pattern—Figure 11 in wide, 2 ft from centre to centre. Made in pieces 4 ft in length, and 13, 14, and 15 in wide, formed to a quarter circle.



No. 2 Cove Pattern—Figure 8 in wide, made in pieces 2 to 5 ft long, and 10 and 12 in. wide, formed to a quarter circle. This pattern is also used with a small mould formed on the upper and lower edges as a finish, in place of the mouldings shown on the adjoining cut. See page 9.



No. 4 Cove—For cornice, in pieces 15, 17 and 19 in wide, formed to a quarter circle. Used, with a top and foot mould, for the cornice of large and high rooms.

H. S. NORTROP, Manufacturer,
40 Cherry Street, New York. (17)

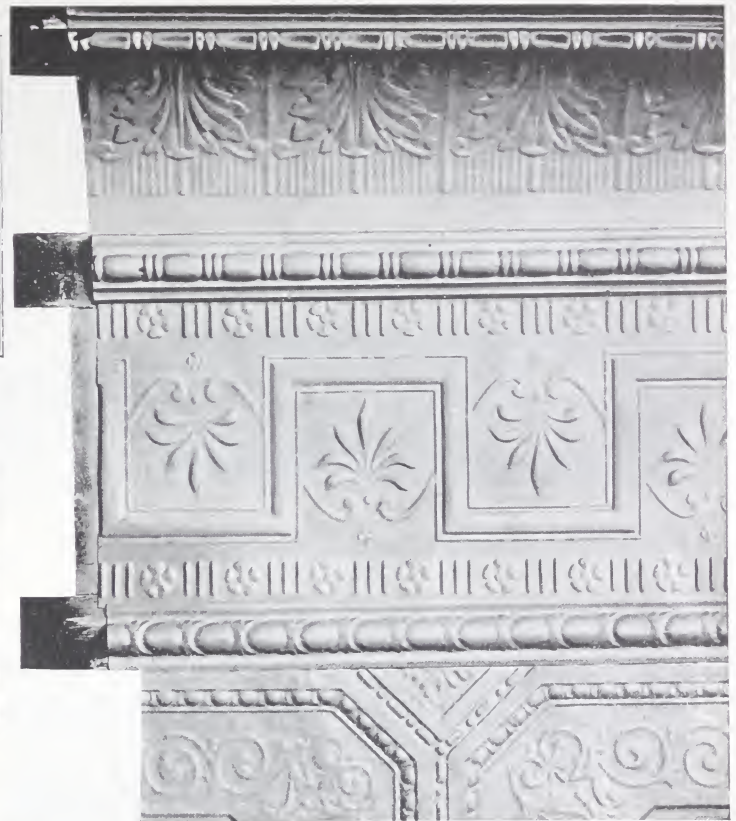
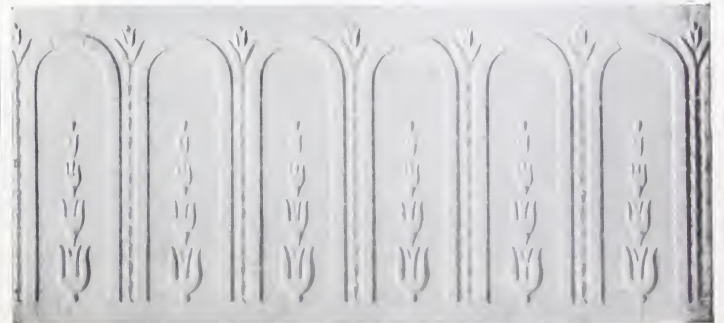
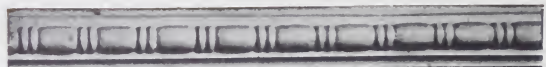


Photo engraving showing the “Leaf” cove cornice “Greek Fret” border, Nos 1 and 3 embossed moulding embossed foot mould, and portion of Panel No. 4. This cove turns down from 6 to 5 inches on the wall.



No. 1 Cove Pattern—Figure 13 in wide, with margin 1 to 5 in. Made in pieces 2 to 8 ft long, and 12, 14, 16 and 18 in wide, formed to a quarter circle.



No. 1 Moulding 3 in wide No. 2 Moulding 2 in wide



No. 3 Moulding 3 in wide Light and heavy



No. 4 Moulding 3 in wide



No. 5 Moulding 3 in wide



No. 6 Moulding 4 in wide



No. 7 1/2 in wide No. 8 1/4 in wide No. 9 1 in wide



No. 10 and 11 Mouldings 1/2 and 1 in wide



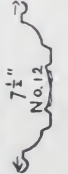
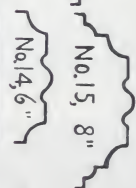
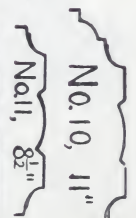
No. 12 and 13 Mouldings 6 and 8 in wide



No. 14 Moulding 7 1/2 in wide Any depth desired



No. 15 Moulding 3 in wide Made also in curves of various radii, and with ornamental corner pieces (See page 16)



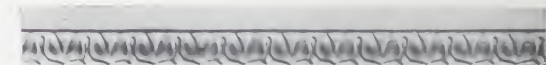
No. 17 (Foot Moulding)



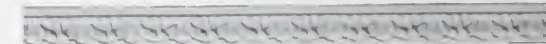
No. 18 (Foot Moulding) 2 in wide



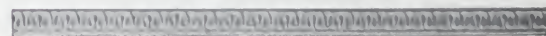
No. 21 Moulding 1 1/4 x 1 1/2 in wide



No. 23 Moulding 1 in x 1 1/2 in wide



No. 19 Moulding 1 x 1 in wide



No. 20 Moulding 1/2 x 1 in wide



No. 24 Moulding, plain 1 x 1 1/4 in wide



No. 22 Moulding 1 in x 2 1/4 in wide



No. 25 Moulding 2 1/2 x 2 1/2 in wide



No. 26 Moulding 3 x 3 in wide.

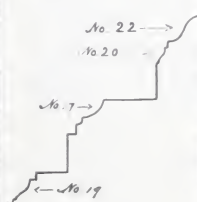




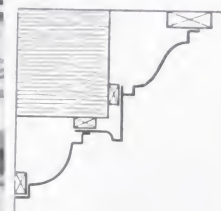
No. 16 Moulding—With right and left end pieces, middle piece, and corner piece, on ground of No. 3 Diaper pattern. Scale, $\frac{1}{8}$ in. = 1 in.



"Classic" Cornice No. 1—9 x 9 in.



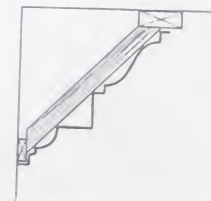
"Classic" Cornice No. 2—3 x 5 in.



"Classic" Cornice No. 4— $3\frac{1}{2}$ x 2 in.



"Classic" Cornice No. 3— $6\frac{1}{2}$ x $6\frac{1}{2}$ in.



These Cornices are made in pieces four feet long, and match together very neatly.



Fig. 1 shows construction of the "Cove" Cornices, with Mouldings at the top and foot, and their connection with the Border and Panels. The projection of the Cove varies from 6 in. to 16 in. and the depth on wall from 5 in. to 12 in., according to the pattern and size chosen. (See page 17.)

Fig. 2—Shows the "Cove" Cornice No. 2 Border and Panels as put up when no extra mouldings are desired.

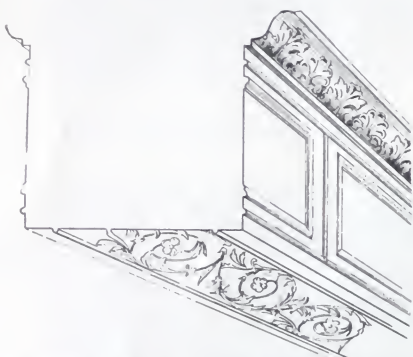


Fig. 3—Girder Casing, with Panels 28 on Sides, Border No. 3 on Soffit and Cornice Moulding 26.

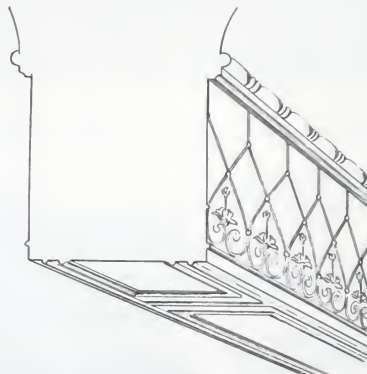


Fig. 4—Girder Casing, with Border No. 6 on Sides, and Panel No. 28 on the Soffit.

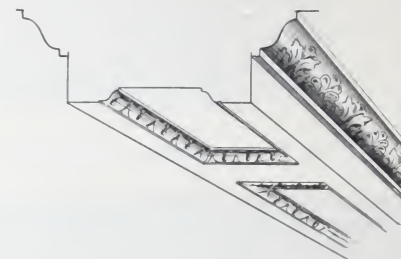


Fig. 5—Girder Casing or False Beam, Paneled on Soffit, with Moulding 23 and with Cornice Mould No. 26.



Panel No. 28—10 in. x 22 in.

Panel No. 30—10 in. x 30 in.

Panel No. 28 is used for Soffits and Sides of Girders, for Wainscoting, Ceiling, etc.

Panel No. 29 is used for Fire Proof Doors, Wainscoting, and Ceiling.



Panel No. 29—14 in. x 22 in.

TO ARCHITECTS AND BUILDERS



HEREWITH offer a fireproof door and trim, of proper design and neat finish, which will be found much more satisfactory in appearance to the ordinary metal covered doors.

They consist of the ordinary stiles, panels and rails of wood, framed as indicated, A, C, B, E covered with one single sheet, having panels and rails stamped on it without cross seam or joint. The coverings of the stiles are each of one piece, extending around them and seamed to the panel sheet at (a). The panels are $\frac{1}{2}$ in. deep, and the wood panel may be omitted.

The rails (E) may be from 4 to 5 inches wide, and the top (C), bottom (B) and stiles (A) may be as wide as desired. The panels are 14 x 22 inches, and by varying the width of the rails and stiles, doors of any ordinary size may be made.

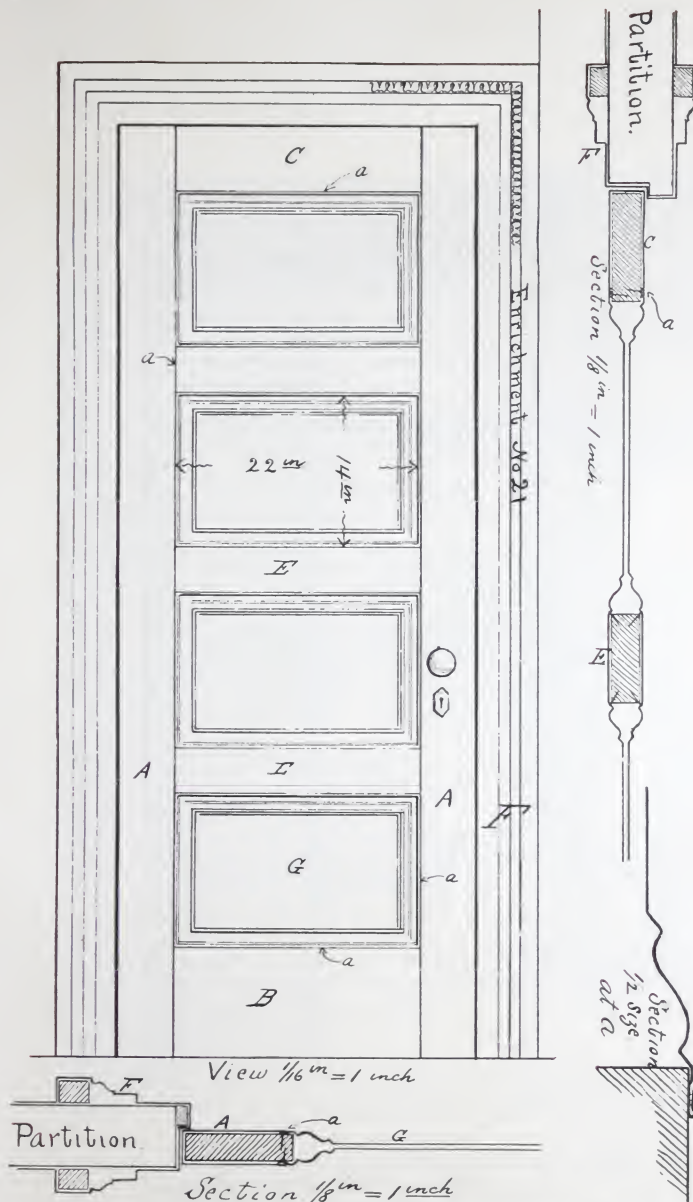
This door complies in every respect to the requirements of underwriters for fireproof doors.

Before being delivered to me the wood frame should be fitted at the building, allowing 1 16 inch all around for the metal, the places for the hinges cut, the lock fitted, but the knob omitted. They will then be covered and delivered at the building.

The trim will be made as illustrated, or otherwise, as necessary.

The material used is No. 28 mild steel, painted one coat white each side.

Prices can only be given on receipt of specification, showing number of each size.



H. S. NORTHROP, Manufacturer, 40 Cherry Street, New York.

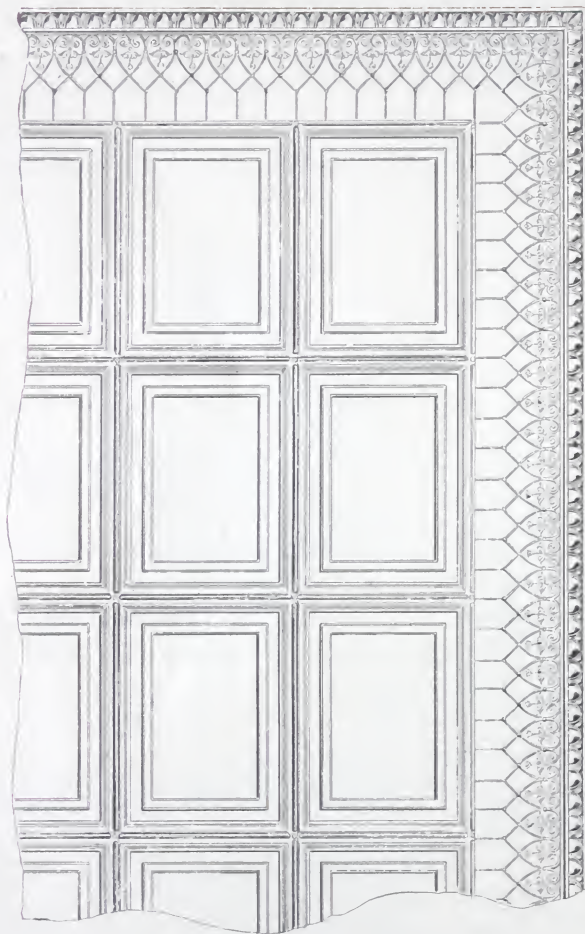


Fig. 6—No. 10 panels, with No. 6 Border and
Cornice of Moulding No. 25.
Scale, $\frac{1}{2}$ in. = 1 ft.

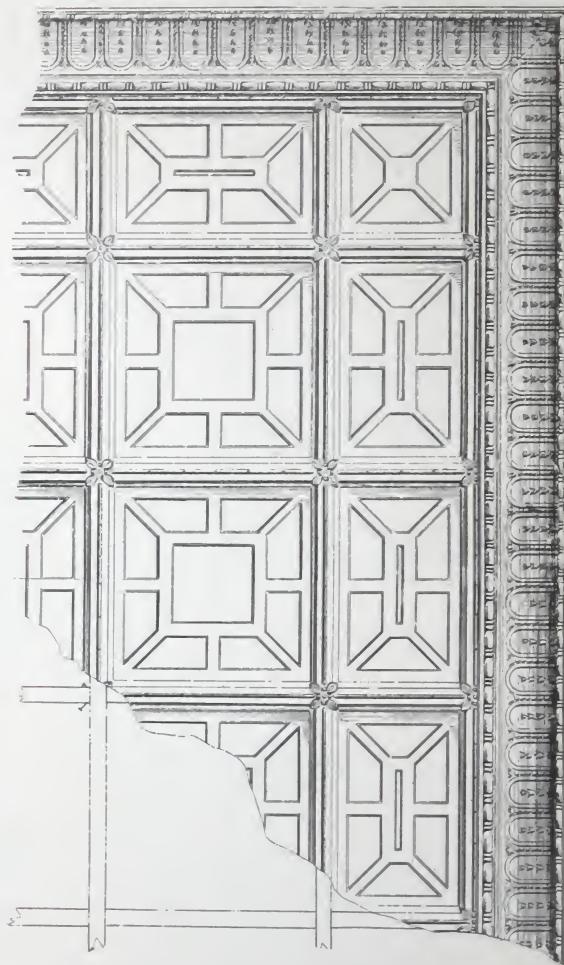


Fig. 7—No. 11, 12 and 13 panels, with Empire Cove Cornice,
No. 1 Moulding and No. 18 Foot Moulding
Scale, $\frac{1}{2}$ in. = 1 in.

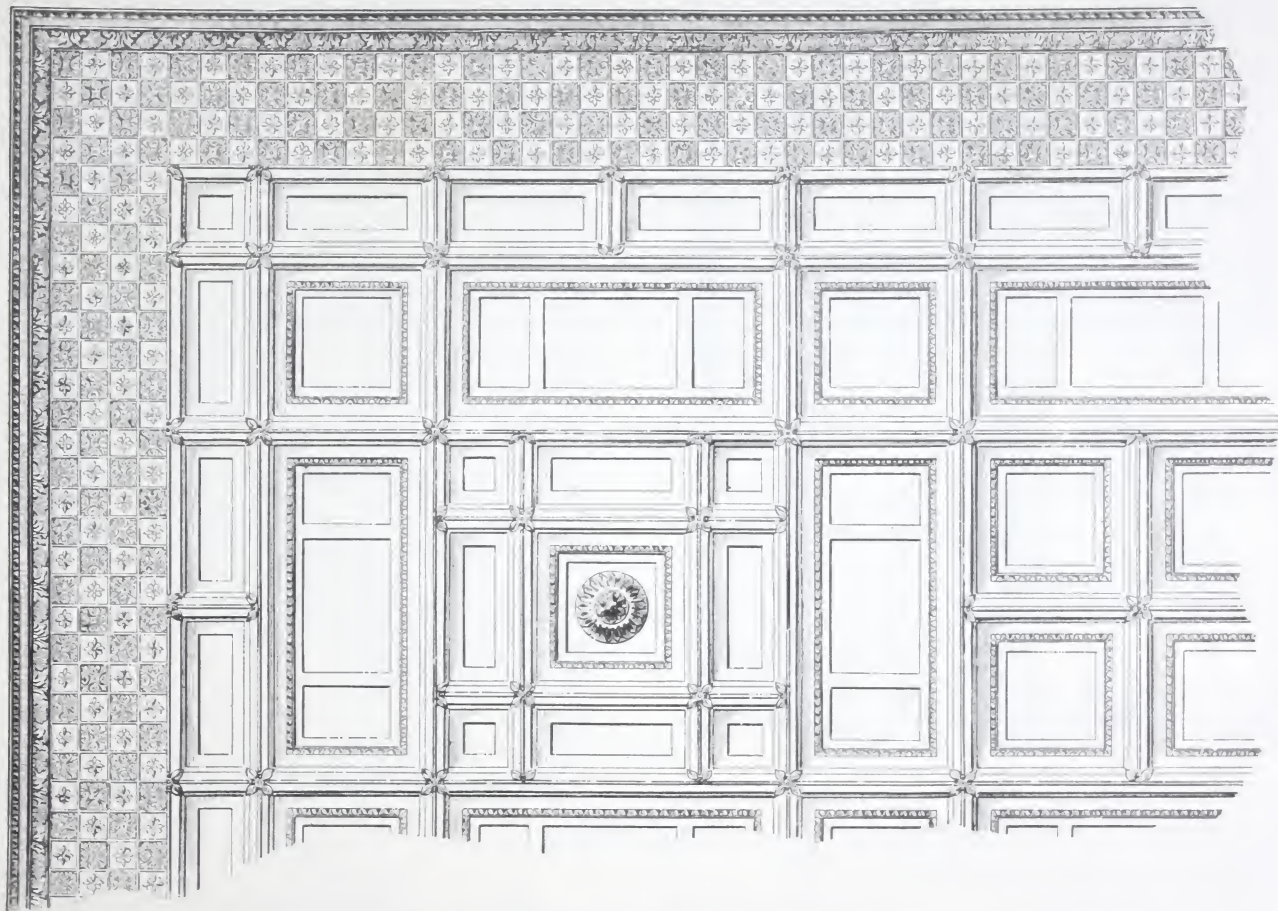


Fig. 8—No. 25 and 26 panels with No. 5 Diaper pattern on border, and Classic Cornice No. 3. Scale, about $\frac{1}{2}$ in. per ft.

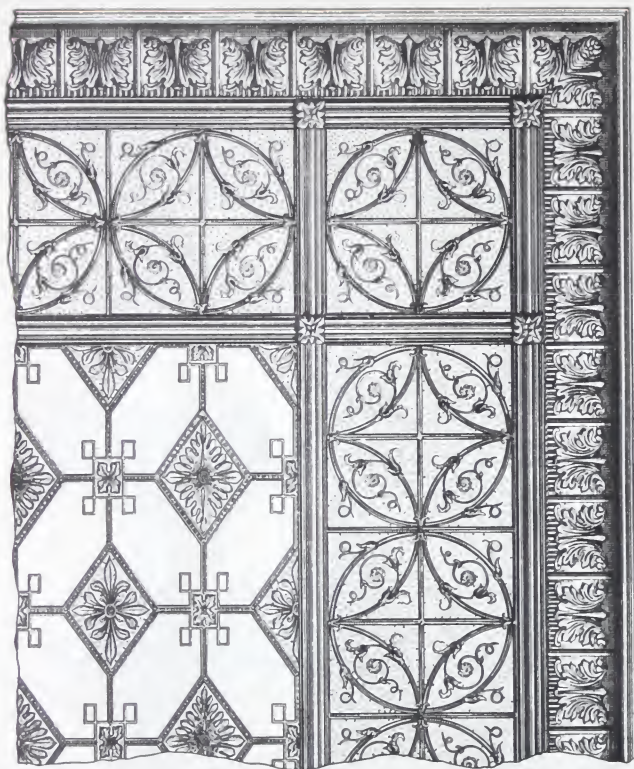


Fig. 9—Shows the No. 3 Panels with a border of the No. 2 Panels, the leaf cove cornice, and No. 7 Plain Mouldings. An arrangement adapted to many medium sized rooms

The No. 3 Panels are made in sheets of three, covering $19\frac{1}{2} \times 82\frac{1}{2}$ in. The No. 2 Panels are made in sheets of five, covering $19\frac{1}{2} \times 97\frac{1}{2}$ in.

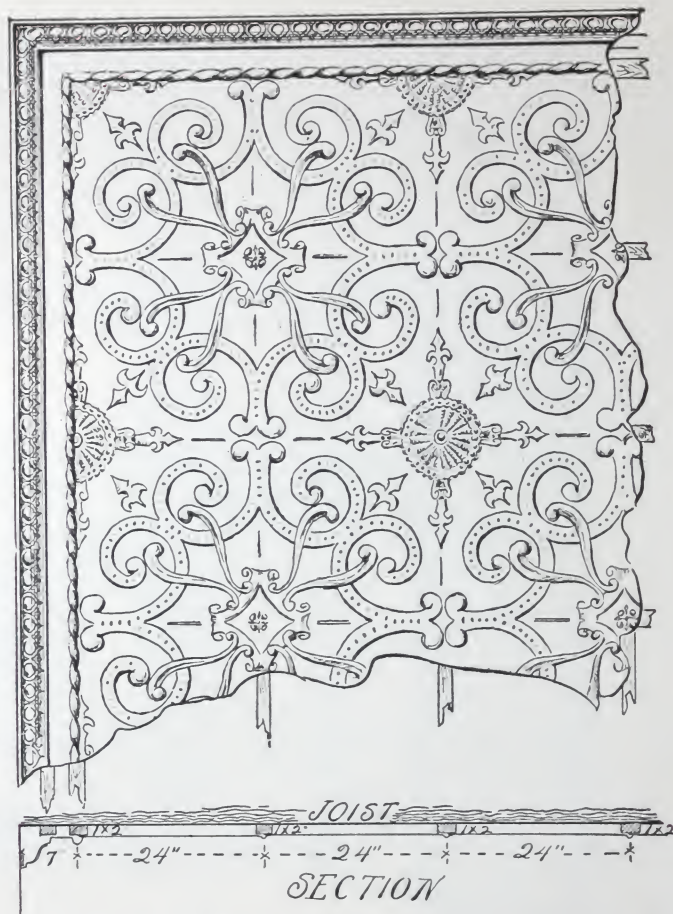


Fig. 10—Shows the No. 18 Panels, a plain margin or border, with No. 9 and 25 Mouldings. Scale, $\frac{1}{2}$ in. = 1 ft

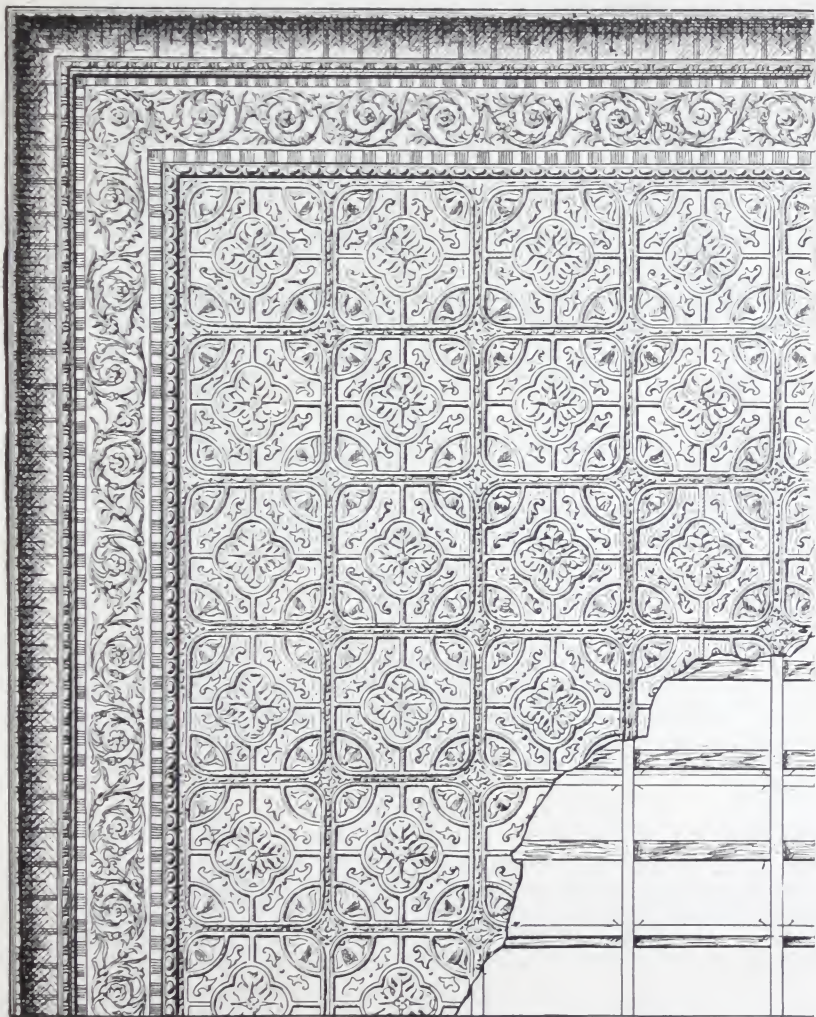


Fig. 11—Ceiling of No 9 Panels, 27 x 27 in with No 3 Border, cove cornice, Nos. 1 and 4 Mouldings and No 18 ft Mould. Scale, $\frac{3}{8}$ in.=1 ft.

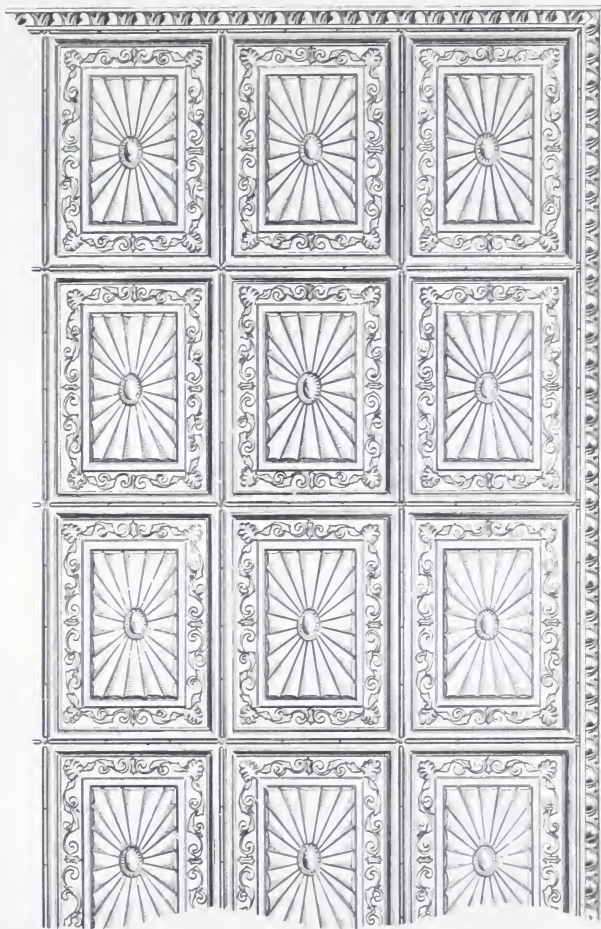


Fig. 12—Ceiling of No. 27 Panels, 24 x 32 in each, with cornice of No 25 Mould, Scale, $\frac{1}{2}$ in.=1 ft

These panels are made in sheets of three, covering 2 ft x 8 ft

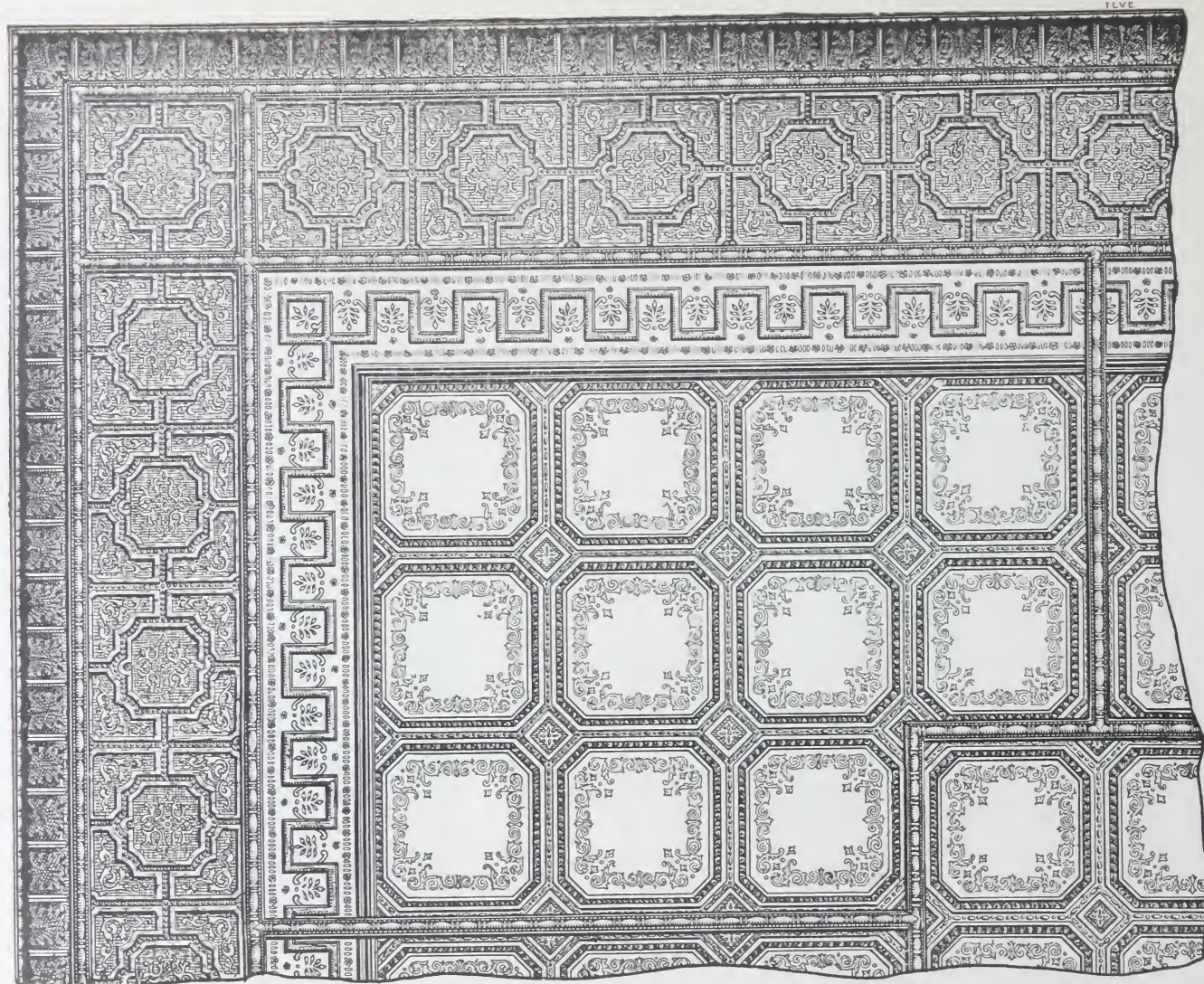


Fig. 13—Leaf Cove Cornice. Border of No. 7 Panels, with No. 1 Embossed Moulding on each side. Smaller border of "Greek Fret" pattern. Central Panels of No. 4 pattern. The width of the borders and cornice can be varied to suit the size of rooms, and Nos. 5 and 6 Panels are often used in place of No. 4. A photo engraving of this style is shown on page 34. Scale, $\frac{1}{2}$ in = 1 ft.

H. S. NORTHROP, Manufacturer, 40 Cherry Street, New York.

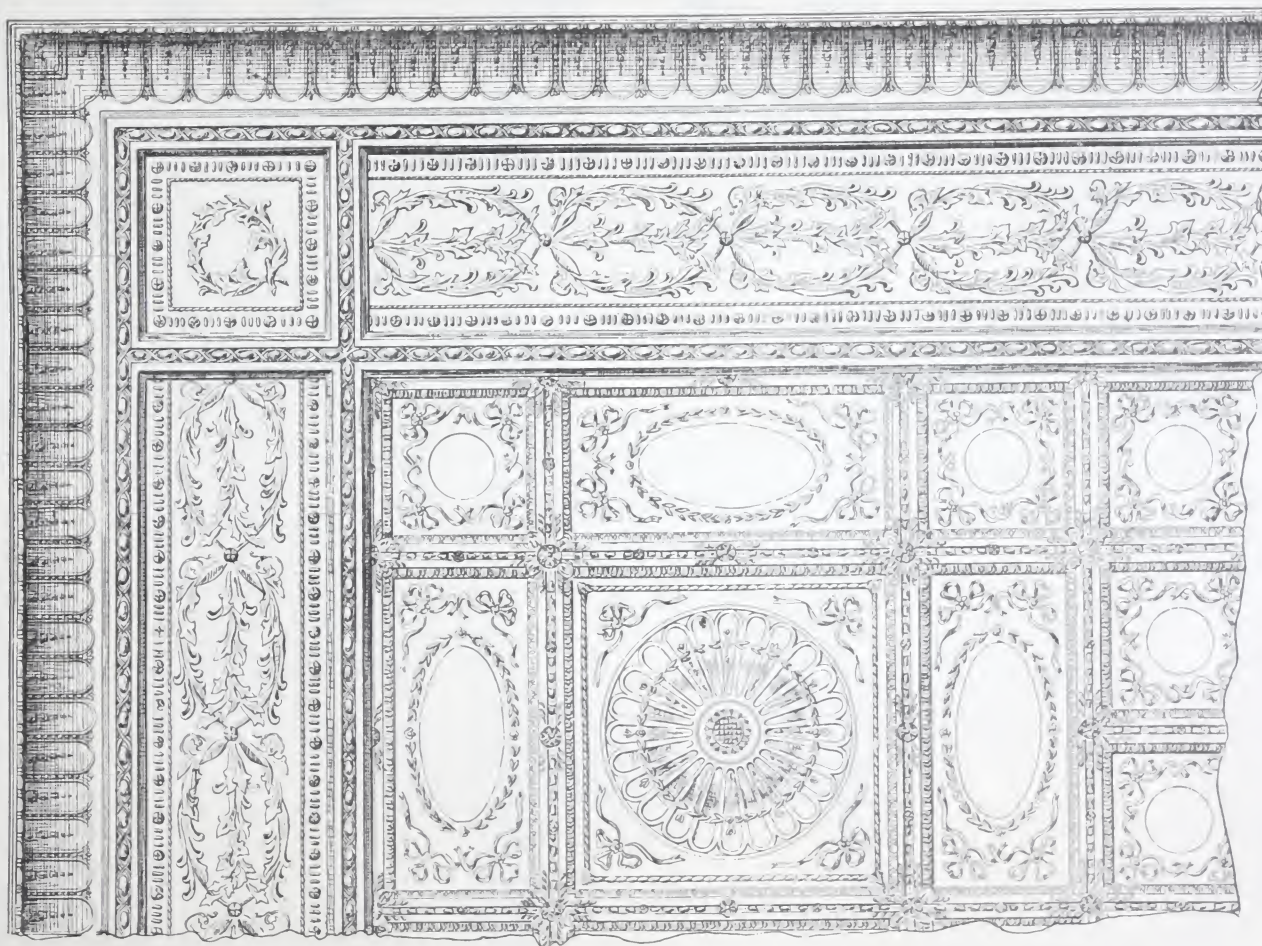


Fig. 14 shows the Nos 14 and 15 panels and the centerpiece panel (No 16), the "Empire" or No 1 border and cove, and the No 14 embossed moulding on each side of the border. Many different arrangements can be made with these panels, so that rooms of almost any size can be fitted. The centerpiece panel can be used with many of the other patterns, or entire ceilings may be formed of them. Scale $\frac{1}{2}$ in = 1 ft.

H. S. NORTHROP, Manufacturer, 40 Cherry Street, New York.

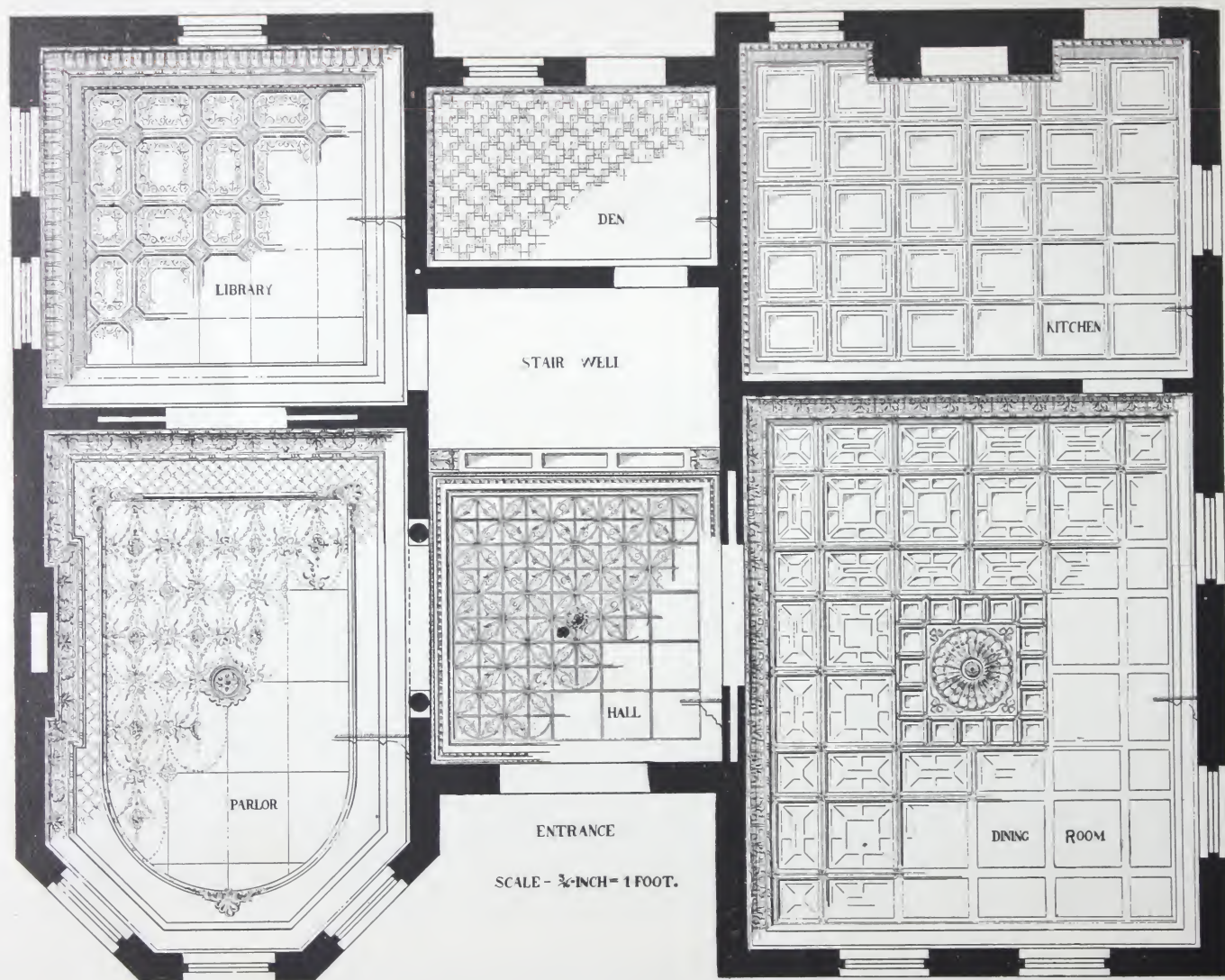


Fig. 15—Showing Metal Ceilings as applied to the rooms of a residence



Office of H. S. Northrop, 40 Cherry Street, New York.

With ceiling of No. 22 Panels, cornice of Nos. 25, 26 and 20 Mouldings. Festoon Frieze below cornice and No. 3 Diaper pattern on wall.
Also iron covered wooden doors, iron trim and stamped panel wainscoting.



Ceiling of the Vestibule of the addition to the Court House in Brooklyn, N Y, showing the No. 22 Panels, with cornice like No. 2, page 19.

H. S. NORTHROP, Manufacturer, 40 Cherry Street, New York.



Photo engraving showing No. 15 Panels, No. 1 or "Empire" Border, No. 4 or Large Leaf Cove, No. 14 Mouldings.

H. S. NORTHROP, Manufacturer, 40 Cherry Street, New York.



First National Bank, Paterson, N. J.

Ceiling in Empire Style of No 14 and 15 Panels "Empire" Border and Cove. Centerpiece panels All manufactured, put up and painted by
H. S. NORTHROP, Manufacturer, 40 Cherry Street, New York.

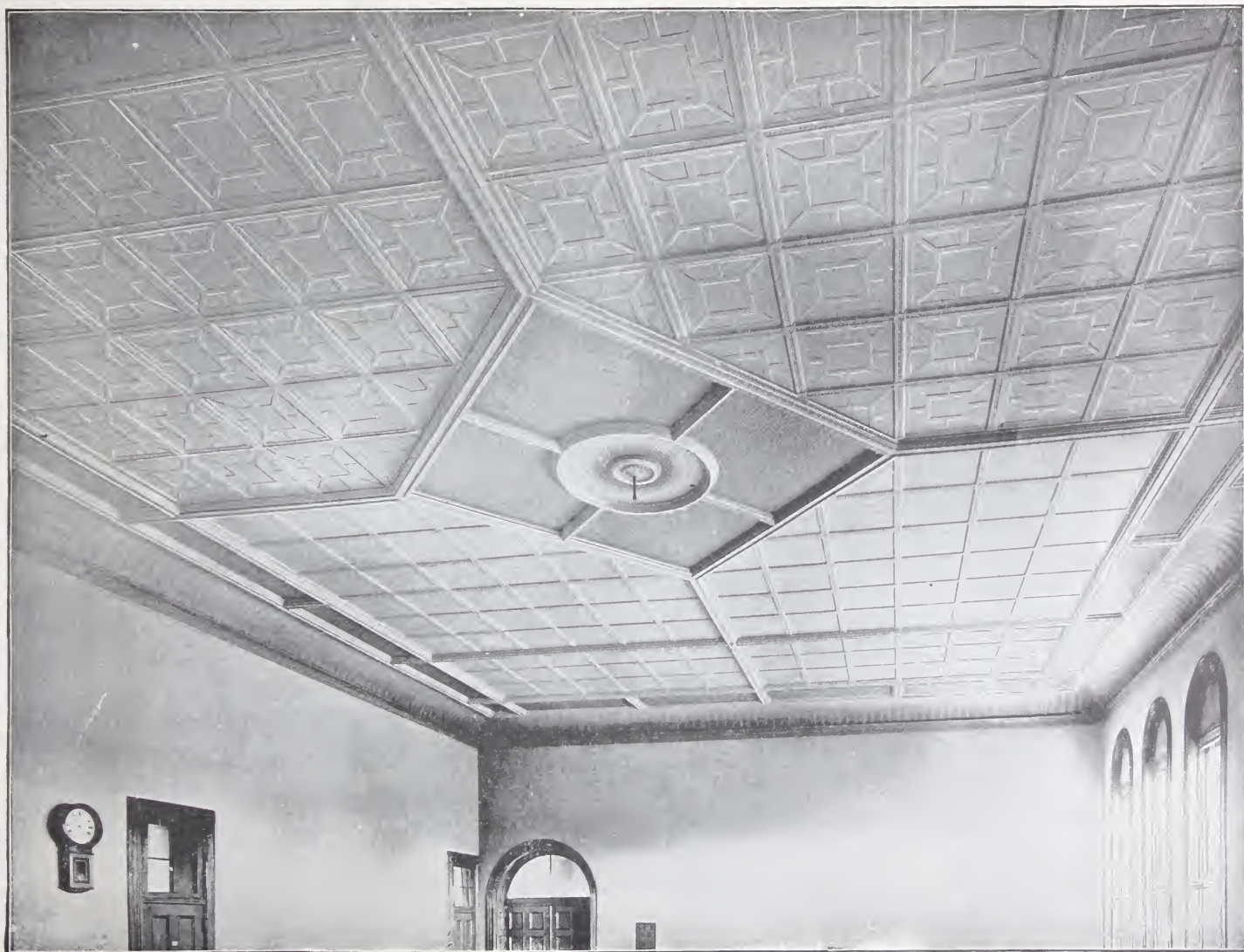


Photo-engraving of ceiling in Entertainment Hall of Hancock Street School, Brooklyn, showing the No. 11 Panels, with border and central Panels of "Diaper" pattern, framed with large embossed mouldings. A "Reeded" cove cornice extends 20 in. out on the ceiling and down on the wall.

H. S. NORTHROP, Manufacturer, 40 Cherry Street, New York.



Photo-engraving of ceiling in Germania Club Building, Brooklyn, showing the No. 4 panels, "Leaf" cove cornice, etc.

H. S. NORTHROP, Manufacturer, 40 Cherry Street, New York.



Photo engraving from ceiling in the Eden Musee, of Paterson, N. J. showing the No. 19 Panels, with No. 1 Moulding between each. The No. 4 or large "Leaf" cove cornice No. 3 "Diaper" pattern, margins, etc.

H. S. NORTHROP, Manufacturer, 40 Cherry Street, New York



Photo-engraving from ceiling in the addition to the County Court House, Brooklyn, N. Y., showing the Nos. 25 and 26 Panels, Reeded Cove Cornice, Twilled Sheets with No 3 Mouldings in the dome. Special large beam mouldings, etc

H. S. NORTHROP, Manufacturer, 40 Cherry Street, New York.



Photo-engraving of ceiling in the addition to the County Court House, Brooklyn, N Y, showing Nos 25, 26 and 16 Panels, with Reeded Cove, No 6 Mouldings, Paneled Girder Casing, etc

H. S. NORTHROP, Manufacturer, 40 Cherry Street, New York.



Photo-engraving from a ceiling in a bank at Reading, Pa., showing the No 16 panels with special large mouldings.

H. S. NORTROP, Manufacturer, 40 Cherry Street, New York.



Photo-engraving of ceiling and sidewalls in the N Y, N H & H R R Depot at New Haven, Conn. The No. 9 Panel forming the "field" of each section, with No. 3 or "Rococo" border, No. 1 or "Leaf" cove, "Greek" border under girders, and Nos. 6 and 9 Embossed Mouldings.

H. S. NORTHROP, Manufacturer, 40 Cherry Street, New York.

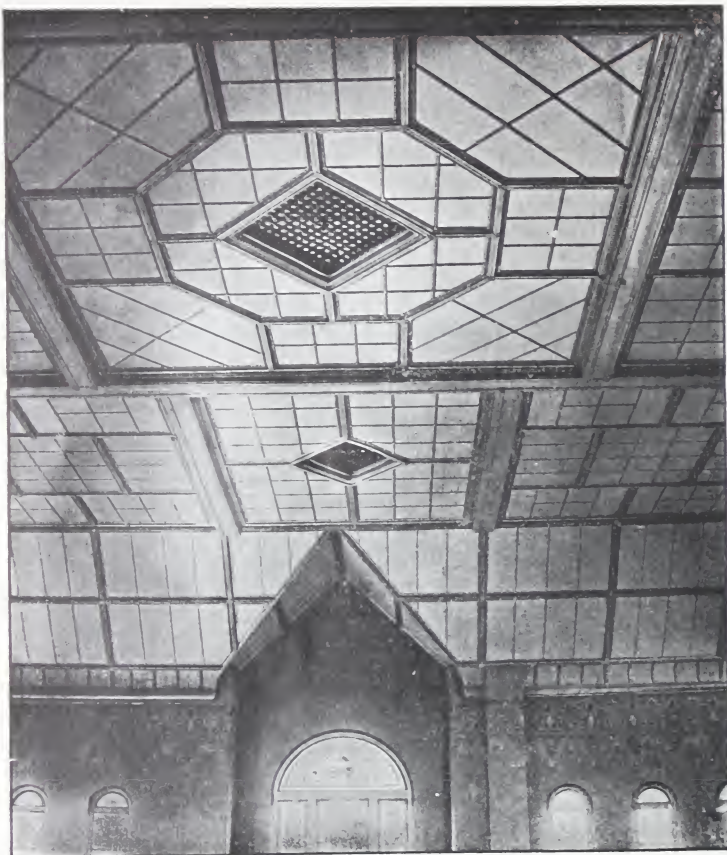


Photo engraving of ceiling in Memorial Hall, Rockville, Conn., a very large and high ceiling, of "Crimped" and "Twilled" sheets, with mouldings of various sizes. These sheets can be paneled in a great variety of ways and adapted to rooms of every size and form.



Photo-engraving from work in Rockville, Conn., showing the No. 2 Panels. Border of "Twilled" panels. "Reeded" cove cornice.

H. S. NORTROP, Manufacturer, 40 Cherry Street, New York.

Ordering, Preparation, Putting Up and Finishing

ALL ceilings in the vicinity of New York we prefer to put up ourselves, and paint or decorate them also. We also send competent men—either by contract or by days' work and expenses, to put up ceilings—no matter where. We find, however, that a painstaking carpenter, tinner or decorator, can usually do a very satisfactory job, often as well as our own men. The large number and oft repeated orders from distant points to be put up by local mechanics go to prove this. The usual tools needed are a hammer, saw (for the furring), chalk-line, and tinner's hand shears.

When writing for a design of, or ordering a ceiling, mention all the particulars necessary for planning the ceiling. The architect's plans, or a diagram showing the sizes, off sets, stair openings, elevators and fixed chandeliers is usually sufficient. Mention whether a cornice, large or small, is desired, or can extend all around the room, or whether a wood moulding will be used to finish the corner. If a church ceiling, send floor plan and a section, with particulars as to cornice, VENTILATION and CHANDELIERS.

When particulars are received, a plan is drawn to scale and submitted for approval, to be returned with order. Corrections can then be made, a list of materials required and directions written. The plan, etc., are then sent on with the invoice and bill of lading. If time is short, the time lost in sending for approval may be saved.

If the building is an old one and the ceiling is plastered, the furring strips can be secured with longer nails, reaching into the joist. Do not remove the plaster, as the work can be done just as well with it on, and much dirt saved. If there is a plaster cornice, give its depth and projection. If it is sound it may remain uncovered, the metal terminating against it with a small moulding, but if cracked, a cove cornice can be supplied large enough to cover and support it.

For attaching the ceiling, the joists or old ceiling should be, for the smaller flat panels, ceiled with $\frac{3}{4}$ in. rough pine or spruce boards, and for the larger, and all the raised panels, furring strips, 1 x 2 in., should be put up, spaced as indicated on the plan. Where mouldings are to run wider strips are necessary, 1 x 3 in., 1 x 4 in., 1 x 6 in., or two 1 x 2 in., according to their size. The furring is first put up crossways of the joists, then shorter pieces are fitted in between the first where necessary, all to be flush and LEVEL. The panels are then tacked in place, the cove and borders put up, and then the moulding separating borders or marking divisions. The mouldings are to be nailed close to their outer edges. Wire nails are used entirely— $\frac{3}{4}$ in. x No. 17 for the panels and borders; 1 $\frac{1}{2}$ in. x No. 15 (usually) for the mouldings.

When up, the ceiling will need one or two coats of paint. As the stamped pattern makes sufficient ornamentation, more decoration is not necessary. A "FLAT" finish, with one tint on the border, one on the cove, one on the central panels, and one on the mouldings, is the ordinary treatment, but it may be varnished, grained, bronzed or gilded, as you wish.

Ceilings for shipment are carefully boxed, not crated.

The weight (boxed) is from 70 to 80 lbs. per 100 sq. ft.

The freight rate, carrier's risk, is second or third class, owner's risk, it is fifth class.

The ceilings are painted one coat each side by dipping in a paint of pure white zinc mixed with pure linseed oil and pure turpentine. Most manufacturers use "patent" paints, "roofing" paints, or no paint at all.

Church ceilings are almost always of special arrangement, and I will be pleased to offer designs and estimates whenever particulars are received.

The constant use, since introduction of these ceilings by the school boards of this and other cities proves how satisfactory they are for public schools and similar buildings.

Architects or owners who wish special designs or arrangements will please indicate what is wanted, or send drawing, and I shall be pleased to do all possible to meet their wishes.

H. S. NORTHROP, Manufacturer, 40 Cherry Street, New York.



Corrugated Sheets— $1\frac{1}{4}$ inches centre to centre Made in a press (not in rolls), thus securing uniformity and accuracy of fit Furnished in sheets of No 24 to No 28 gauge and up to ten feet in length, either painted red or galvanized



Sheet Steel Pressed Brick—Covering size, $25\frac{1}{4} \times 58$ inches. No 28 gauge, either painted red or galvanized, and suitable for exterior or interior use The surface to which it is applied should be boarded



Beaded Sheets—Covering width 24 inches, any length up to ten feet, No 28 gauge, painted red Useful for exterior or interior use



Clap or Weatherboard Sidings—Of No 28 gauge iron, in sheets of any length up to ten feet

Quotations on these goods include the extreme sizes of the sheets without allowance for laps.

REFERENCES.

Churches.

M. E. Church, Arkville, N. Y.
M. F. Church, Accord, N. Y.
Hanson Pl. M. E. Church, Brooklyn, N. Y.
M. E. Church, Bayshore, N. Y. (L. I.)
Moravian Church, Castleton, N. Y. (S. I.)
M. E. Church, Canajoharie, N. Y.
First Pres. Church, S. S. Rooms, Brooklyn, N. Y.
Tremont Pres. Church, New York City.
St. Joseph Church (R. C.) W. 125th St., N. Y. City.
Reformed Church, Knox, N. Y.
Pres. Church, Islip, N. Y.
Pres. Church, Hermon, N. Y.
M. E. Church, Islip, N. Y.
St. Marks Church, Parish House, Islip, N. Y.
M. E. Church, New Rochelle, N. Y.
M. E. Church, Sayville, N. Y.
Cong'l Church, Patchogue, N. Y.
M. E. Church, Tannersville, N. Y.
Olin M. E. Church, Williamsbridge, N. Y. City.
M. F. Church, Tully, N. Y.
St. Peter's P. E. Church, Peekskill, N. Y.
St. Benedicts Church, Newark, N. J.
M. E. Church, Olive Branch, N. J.
First Pres. Church, Elizabeth, N. J.
Baptist Church, Holmdel, N. J.
Reformed Church, Holmdel, N. J.
Pres. Church, Union, N. J.
Church of the Redeemer, Newark, N. J.
Reformed Church, Wayne St., Jersey City, N. J.
Pres. Church, Whitehouse, N. J.
St. Francis Church, Lodi, N. J.
M. E. Church, Matawan, N. J.
Dutch Reformed Church, Upper Montclair, N. J.
M. E. Church, Daytona, Fla.
M. E. Church, Tampa, Fla.
First Pres. Church, Tampa, Fla.
Houston M. E. Church, Savannah, Ga.
Pres. Church, Athens, Ga.
Pres. Church, Macon, Ga.
Cong'l Church, Chester, Conn.
Pres. Church, North Branford, Conn.
German M. E. Church, Reinbeck, Iowa.
Pres. Church, Cedar Falls, Iowa.
Christian Church, Bowling Green, Ky.
M. E. Church, North Adams, Mass.
Orthodox Church, Ashby, Mass.
M. E. Church, Holyoke, Mass.
Universalist Church, Springfield, Mass.
M. E. Church, Westfield, Mass.
Ch. of Immac. Conception, Newburyport, Mass.
First Cong'l Church, Fall River, Mass.
Unitarian Church, Lexington, Mass.
M. E. Church, Fall River, Mass.
North Cong'l Church, Nantucket, Mass.
Highland Baptist Church, Springfield, Mass.
St. Anthony (R. C.) Church, Three Rivers, Mass.
Cong'l Church, E. Weymouth, Mass.
First Baptist Church, Somerset, Mass.

Surrey St. M. E. Church, Fall River, Mass.
Cong'l Church, Housatonic, Mass.
M. E. Church, Royalston, Mass.
Second Baptist Church, Bangor, Maine.
M. E. Church, South Brewer, Maine.
East Bangor Church, East Bangor, Maine.
Cong'l Church, Island Falls, Maine.
Lutheran Church, Constantine, Mich.
Swedish Ev. Lutheran Church, Gooding, Mich.
Cumberland Pres. Church, Water Valley, Miss.
Lutheran Church, Mottville, Mich.
M. E. Church, Moultonboro, N. H.
High St. M. F. Church, Great Falls, N. H.
Union Church, Chesterfield factory, N. H.
Christian Church, Weterly, R. I.
Pres. Church, Newport, R. I.
M. E. Church, Greenwich, R. I.
St. Francis de Sales Church, Newark, Ohio.
M. E. Church, Salem, Ohio.
Baptist Church, Raleigh, N. C.
Second Pres. Church, Pottsville, Pa.
Baptist Church, Scranton, Pa.
Reformed Church, Newville, Pa.
Presbyterian Church, Fort Worth, Texas.
Zion P. E. Church, Brownsville, Tenn.
Freewill Baptist Church, St. Johnsbury, Vt.
Presbyterian Church, Danville, Vt.

Banks

First Nat'l Bank, Tyler, Texas.
Pomeroy & Mitchell, Troy, Pa.
High Street Bank, Providence, R. I.
Vermont Nat'l Bank, Brattleboro, Vt.
Fifth Nat'l Bank, 31d Ave. and 23rd St., N. Y. City.
Pacific Nat'l Bank, Directors' Room, N. Y. City.
First Nat'l Bank, Fredonia, N. Y.
Watertown Nat'l Bank, Watertown, N. Y.
Second Nat'l Bank, Cooperstown, N. Y.
Union Trust Co., Jamestown, N. Y.
States Island Savings Bank, Stapleton, N. Y.
Farmers' and Merchants' Bank, Cobleskill, N. Y.
Fifth Avenue Bank, Brooklyn, N. Y.
Bank of Attica, Attica, N. Y.
Edward Sweet & Co., Bankers, Broad St., N. Y.
First Nat'l Bank Building, Rockville, Ct.
Charter Oak Bank, Hartford, Ct.
Holmes & Parsons Bank, Waterbury, Ct.
First Nat'l Bank, Tuscaloosa, Ala.
First Nat'l Bank, Brunswick, Ga.
Isbell & Co., Bankers, Talladega, Ala.
Thomasville, Nat'l Bank, Thomasville, Ga.
Winfield Nat'l Bank, Winfield, Kans.
First Nat'l Bank, Sault Ste. Marie, Mich.
Farmers' Bank, New Prague, Minn.
Bank of Salisbury, Salisbury, Mo.
Hudson Savings Bank, Hudson, Mass.
Warren Nat'l Bank, Peabody, Mass.
Mercantile Nat'l Bank, Salem, Mass.
First Nat'l Bank, Adams, Mass.
W. W. Brewster Bank, Plymouth, Mass.

First Nat'l Bank, Elizabeth, N. J.
Passaic Nat'l Bank, Passaic, N. J.
First Nat'l Bank, Paterson, N. J.
Third Nat'l Bank, Jersey City, N. J.
First Nat'l Bank, Raleigh, N. C.
Farmers' Bank, Raleigh, N. C.
Commercial Bank, Rising City, Neb.
Farmers' Bank, Weston, Oregon.

Public Buildings.

County Court House, Fall River, Mass.
Bangor City Hall, Bangor, Maine.
Lewiston City Hall, Lewiston, Maine.
Atheneum Library, Nantucket, Mass.
Court House, Houlton, Maine.
City Hall, Elmira, N. Y.
County Court House addition, Brooklyn, N. Y.
Court House, Columbia, S. C.
Town Hall, Deep River, Conn.
Memorial Town Hall, Rockville, Conn.
Town Hall, Evansville, Wis.
Neillsville Opera House, Neillsville, Wis.
Eden Musee, Paterson, N. J.
Casino Building, Bergen Beach, N. Y.
State Hospital for Insane, Willard, N. Y.
State Homeopathic Hospital, Middletown, N. Y.
Manhattan State Hospital, Ward's Island, N. Y.
Presbyterian Hospital, 71st St., N. Y. City.
N. Y. Ophthalmic Hospital, E. 23rd St., N. Y. City.
New York Hospital, W. 15th St., N. Y. City.
N. J. State Hospital, Trenton, N. J.
Conn. State Hospital, Middletown, Conn.
Taunton, Lunatic Asylum, Taunton, Mass.
Orange Memorial Hospital, Orange, N. J.

Hotel, Society and Club Buildings.

Y. M. C. A. Building, Elmira, N. Y.
Y. M. C. A. Building, Albany, N. Y.
Wilson House, North Adams, Mass.
Mansion House, North Adams, Mass.
Kora Temple Hall, Auburn, Maine.
Germania Club, Schermerhorn St., Brooklyn, N. Y.
Aschenhoedel Verein, E. 81th St., N. Y. City.
Pouch Mansion Banquet Hall, Brooklyn, N. Y.
Pierrepont House Parlers, Brooklyn, N. Y.
Arlington Club House, Arlington, N. J.
The Hotel Portland, Atlantic Highlands, N. J.
The Hotel Belvidere, Asbury Park, N. J.
Masonic Hall, Woodlawn, Cal.
I. O. O. F. Lodge, Santa Rosa, Cal.
Rockville Hotel, Rockville, Conn.
Beardsley's Hotel, W. Winsted, Conn.
Old Orchard House, Old Orchard Beach, Maine.
Hotel North, Augusta, Maine.
Bay State House, Worcester, Mass.
Odd Fellows' Hall, Boston, Mass.
Masonic Hall, Carson City, Nevada.
Zeider's Hotel, Albuquerque, New Mexico.
I. O. O. F. Building, Woonsocket, R. I.
K. of P. Hall, Columbia, S. C.
Makoniky Inn, Martha's Vineyard, Mass.

REFERENCES.—Continued.

Drug Stores, Jewelry Stores, Etc.

J. H. Van Duerson, Drugs, New Brunswick, N. J.
S. C. Morrison & Co., Drugs, Stamford, Conn.
C. Zeitus, Drugs, Morris Heights, N. Y.
H. F. Buell, Druggist, Colchester, Conn.
C. H. Rose, Druggist, Manchester, Conn.
D. W. Derby, Druggist, Hermon, N. Y.
E. W. Thompson, Druggist, New Britain, Conn.
C. W. Bixler, Jeweler, Easton, Pa.
Richard, Oliver & Bloomfield, Jewelers, 23 John St., N. Y. City.
John Hepburn, Drugs, Flushing, N. Y.
C. C. Hurlbut, Drugs, Middletown, Conn.
F. L. Lothrop, Drugs, Providence, R. I.
C. P. Kinsella, Drugs, Paterson, N. J.
White & White, Drugs, Grand Rapids, Mich.
Geo. C. Seeley, Drugs, Walton, N. Y.
W. B. Parkin & Co., Drugs, 66th St. and 8th Ave., N. Y. City.
D. C. & H. S. Fink, Jewelers, Providence, R. I.
Geo. F. Ropes & Co., Drugs, Salem, Mass.
W. H. Pierce, Drugs, Shawmut Ave., Boston.
W. M. Moffat, Astor House Drug Store, N. Y. City.

Business Buildings.

W. B. Gill, Business Block, Selma, Ala.
Frank Locke Co., Boston, Mass.
Daniel McPhee & Co., Woodlawn, Cal.
G. M. Southmayd, Middletown, Conn.
The Evening Post Building, Bridgeport, Conn.
The Burt and Packard Shoe Co., Washington, D. C.
Knight & Wall, Tampa, Fla.
Willis Castang, Tarpon Springs, Fla.
Ybor & Manara Offices, Tampa, Fla.
The Singer S. M. Co.'s Salesroom, 209 Wabash Ave., Chicago.
B. F. Thomas, Traer, Iowa.
Peters & Herr, Decorators, Goshen Ind.
Patten Building, Gardiner, Me.
G. C. Moses, Bath, Me.
J. F. Rives & Co., Bangor, Me.
W. A. Nickerson, Houlton, Me.
"Devonshire" Building, Boston, Mass.
The "Stone" Building, Exeter St., Boston, Mass.
Bradford, Thomas & Co., East St., Boston, Mass.
Ames Building, Bedford St., Boston, Mass.
Holyoke Furniture Co., Holyoke, Mass.
Cobb & Drew, Plymouth, Mass.
W. D. Kinsman, Springfield, Mass.
W. A. Lytle & Co., Clothiers, Worcester, Mass.
G. W. Chase, Lowell, Mass.
A. Alexander, Shoes, 23d St. and 6th Ave., N. Y.
Yale & Town Mfg. Co., Chambers St., N. Y.
International News Co., 83 and 85 Duane St., N. Y.
J. M. Hodgson, Florist, 5th Ave. and 45th St., N. Y.
John T. Williams, Builder, N. Y.
Kranich & Bach, Pianos, E. 23d St.
S. Loeb Building, Cortlandt St., N. Y.
Tarrant Building, Warren St., N. Y.
Carl Messerschmidt, Wines, 102 E. 14th St., N. Y.
Burt & Packard Shoe Co., 189 Broadway, N. Y.
Thos. Cook & Son's Offices, 261 Broadway, N. Y.

Marvin Safe Co. Offices, 12 Park Place, N. Y.
Seigel-Cooper Building, Galleries, 18th St., N. Y.
Buttenweiser Building, 138-146 W. 14th St., N. Y.
Lembeck Building, Greenville, Jersey City, N. J.
Unger Bros., Newark, N. J.
Wolff Building, Summit, N. J.
Quinn Building, Rutland, Vt.

Schools.

Jones Memorial School, E. 73d St., N. Y. City.
Public School, Spuyten Duyvil, N. Y. City.
Public School, E. 77th St., N. Y. City.
Public School, E. 157th St., N. Y. City.
Public School, 2d St. near 6th Ave., N. Y. City.
Public School, 77th St. cor. 10th Ave., N. Y. City.
Public School, Rivington & Lewis Sts., N. Y. City.
Public School, 28th St. and 10th Ave., N. Y. City.
Public School, 28th St. and 7th Ave., N. Y. City.
Public School, 11st St. and 4th Ave., N. Y. City.
Public School, 134th St. and Lenox Ave., N. Y. City.
College, City of New York, E. 23d St., N. Y. City.
Public School, Hancock St. nr. Frnkln. Av., Brkln.
Public School, Koskiosco St. nr. Throop Av., Brkln.
Public School, Rockaway Avenue, Brooklyn.
Public School, Wyona Street, Brooklyn.
Public School, Cypress Hill, Brooklyn.
Public School, South 3d Street, Brooklyn.
Public School, 17th Street and 3d Ave., Brooklyn.
Public School, Flatbush and 3d Aves., Brooklyn.
Public School, Eckford St. and Norman Av., Brkln.
Public School, Stagg St. and Bushwick Av., Brkln.
Public School, Lafavette and Classon Ave., Brkln.
Public School, Ralph Ave. and Quincy St., Brkln.
Public School, 15th St. and 4th Ave., Brooklyn.
Public School, Glenmore Avenue, Brooklyn.
Girls' High School, Nostrand Avenue, Brooklyn.
Boys' High School, Marcy Avenue, Brooklyn.
Public School, Johnson Avenue, Brooklyn.
Public School, Herkimer Street, Brooklyn.
Public School, New Lots Road, Brooklyn.
Parish School of St. Augustine, Hoboken, N. J.
Parish School of St. Patrick's Church, Willoughby Avenue, Brooklyn.
Public School, Thames St., Brooklyn, N. Y.
Public School, Floyd Street, near Marcy Avenue, Brooklyn, N. Y.
Public School, Conselyea St., Brooklyn, N. Y.
Public School, 8th Av. and 13th St., Brooklyn, N. Y.
Public School, Linwood St. and Arlington Ave., Brooklyn, N. Y.
Public School, Union St., Brooklyn, N. Y.
Public School, Monitor St., Brooklyn, N. Y.
Public School, Kosciusko St. and Bushwick Ave., Brooklyn, N. Y.
Public School, Blytheburn, Brooklyn, N. Y.
Public School No. 1, New Rochelle, N. Y.
Public School, Cambridge, N. Y.
Public School, Elmira, N. Y.
Public School, Corning, N. Y.
Public School No. 2, Stony Point, N. Y.
Institute of Holy Angels, Fort Lee, N. Y.
Public School, Cedar Falls, Ia.

Public School, Waltham, Mass.
Holy Cross College, Worcester, Mass.
St. John's Parochial School, New Haven, Conn.
Public School, Rockville, Conn.
Public School, Uxbridge, Mass.
Public School, Manchester, Conn.
State Normal School, Farmington, Me.
Pres. Wes. Fem. College, Macon, Ga.
Public School, Weehawken Heights, N. J.
Public School No. 3, West Hoboken, N. J.
Public School, Harrison, N. J.
Public School, Rutherford, N. J.
Public School, Hackensack, N. J.
Public School, Lisbon, N. H.
Public School, Worcester, Mass.
Putnam Free School, Newburyport, Mass.
Parish School of Mission Ch., Tremont St., Boston.
Public School, Hazlewood, Pittsburgh, Pa.
Public School, Sarah Street, Pittsburgh, Pa.
Public School, Penn Avenue, Pittsburgh, Pa.
Public School, Lancaster, Wis.
Hollins' Institute, Hollins, Vt.
State Normal School, New Platz, N. Y.
Public School, Willow Street, Jersey City.
Public School, 22d and Berks Sts., Phila. Pa.
Public School, 7th and Emlin Sts., Phila. Pa.

Railroad Passenger Depots.

Boston & Maine Passenger Depot, Boston.
N. Y., N. H. & H. Pass. Depot, New Haven, Conn.
N. Y., N. H. & H. Passenger Depot, Berlin, Conn.
Long Island Pass. Depot, Flatbush Ave., Brooklyn.
Long Island Pass. Depot, Long Island City, N. Y.
Bangor & Aroostook Pass. Depot, Houlton, Me.
Bangor & Aroostook Pass. Depot, Island City, Me.
National R. W. Pub. Co. offices, 24 Park Place, N. Y. City.

Residences.

Fred'k Danforth, Gardiner, Maine.
C. C. Lester, Saratoga, N. Y.
Geo. E. Newell, Flint, Mich.
Dr. Allen Mott Ring, Arlington Hts., Mass.
Jas. Moore, Elizabeth, N. J.
Mrs. Lucinda Pultz, Rhinebeck, N. Y.
A. D. Wait, Ft. Edward, N. Y.
H. H. Adams, Herkimer St., Brooklyn.
Robert C. Fisher, New Rochelle, N. Y.
A. G. Hall, Saratoga, N. Y.
Walter Schnell, Rhinebeck, N. Y.
W. J. King, Geneva, N. Y.
H. H. Hollister, Islip, L. I., N. Y.
C. W. Harrison, Staunton, Va.
N. E. Harris, Macon, Ga.
W. G. Rosbeck, Litchfield, Conn.
C. W. Anderson, Upper Montclair, N. J.
Dr. Wm. Kemp, 267 W. 23rd St., N. Y. City.
H. K. Nickerson, Athens, Ga.
J. Hugh Peters, Englewood, N. J.
T. J. Daskam, Stamford, Conn.
P. G. Van Alst, Long Island City, N. Y.
H. P. Wellman, Brattleboro, Vt.
E. Ehrlick, Parlor, Bedford Park, N. Y. City.

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H. J. ...

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